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Adding an Element

Now, continue by transforming this **force** to **global coordinates** using a **transformation matrix** calculated in another element method. ...

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[Tn GE] is a **transformation matrix** between **global** and **elemental coordinates** which is expressed as h Tn GE i = 2 6 6 6 6 6 6 6 6 6 4 T1 T2 0 T3 0 Tn 3 7 ...

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T = **Coordinate Transformation Matrix** ... T. - 1. = T. T. v. = Element deflection vector in the **Global coordinate** system ... u = T v. f. = Element **force** ...
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a - **transformation matrix** from **global** to **local coordinates** for ... We can also identify the **transformation matrix** for the **local/global force** relationship. ...

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Trusses and Transformations

where [T] is called the **transformation matrix**. Applying this to equation 1.14 ... Then we obtain the transformed stiffness matrix in the **global coordinate** ...

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To do this, let [T] be the **coordinate transformation matrix**. In addition, let and be the displacement and the external **force** vector in the **global coordinate** ...

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The external **force** acting on body i is the sum of all forces such as inertia ... in the **global**

coordinate system by multiplying the transformation matrix as ...
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hourglass deformation stabilization matrix

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hourglass modes and arise as a consequence of under-integrating the element ... where d is rate of **deformation** tensor defined as the symmetric part of the ...
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To reconsider the way of defining the **stabilization matrix** Γ ... the Q1P0-element and the EAS-element are very low but their **deformation** figure shows ...

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